SEMIKRON

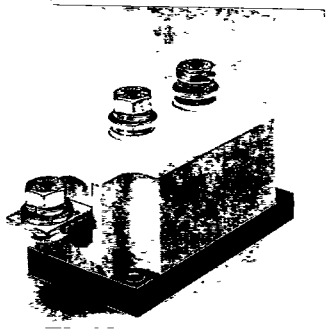
V_{RSM}	V_{RRM}	I_{FRMS} (maximum values for continuous operation) 315 A	410 A	315 A	410 A
		I_{FAV} (sin. 180; T_{case} = 80 °C)			
V	V	200 A	260 A	200 A	260 A
900	800	**SKKD 201/08**	**SKKD 260/08**	–	–
1300	1200	**SKKD 201/12**	**SKKD 260/12**	**SKKE 201/12**	**SKKE 260/12**
1700	1600	**SKKD 201/16**	**SKKD 260/16**	**SKKE 201/16**	**SKKE 260/16**
2100	2000	**SKKD 201/20**	**SKKD 260/20**	–	–
2300	2200	**SKKD 201/22**	**SKKD 260/22**	–	–

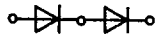
Symbol	Conditions	SKKD 201 SKKE 201	SKKD 260 SKKE 260
I_{FAV}	sin. 180; T_{case} = 85 °C	200 A	260 A
I_D[1]	B2/B6 | T_{amb} = 35 °C; P 3/180 F	250 A/295 A	280 A/320 A
	P 16/200 F	385 A/515 A	490 A/655 A
I_{FSM}	T_{vj} = 25 °C	6000 A	11 000 A
	T_{vj} = 130 °C	5000 A	10 000 A
i^2t	T_{vj} = 25 °C	180 000 A^2s	605 000 A^2s
	T_{vj} = 130 °C	125 000 A^2s	500 000 A^2s
I_{RD}	$T_{vj\,max.}$; V_{RD} = V_{RRM}	9 mA	15 mA
V_F	T_{vj} = 25 °C (I_F = . . .); max.	1,35 V (600 A)	1,25 V (750 A)
$V_{(TO)}$	T_{vj} = 130 °C	0,8 V	0,90 V
r_T	T_{vj} = 130 °C	0,8 mΩ	0,37 mΩ
R_{thjc}	per diode/per module[1] (°C/W)	0,19/0,10	0,14/0,07
R_{thch}		0,06/0,03	0,04/0,02
T_{vj}		– 40 ... +130 °C	
T_{stg}		– 40 ... +130 °C	
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s/1 min	3000 V~/2500 V~[2]	
M_1	Case to heatsink SI units/	5 Nm/44 lb. in. ± 15 %[3]	
M_2	Busbars to terminals US units	9 Nm/80 lb. in. ± 15 %[4]	
a		5 · 9,81 m/s^2	
w	approx.	800 g	940 g
Case	→ page B 1 – 68	A 16 (SKKD 201) A 17 (SKKE 201)	
	→ page B 1 – 74		A 27 (SKKD 260) A 28 (SKKE 260)

SEMIPACK® 3
Rectifier Diode Modules

SKKD 201 SKKE 201
SKKD 260 SKKE 260

T-23-09





SKKD

SKKE

Features

- Heat transfer through ceramic isolated metal baseplate
- Precious metal pressure contacts
- UL recognized, file no. E 63 532

Typical Applications

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- SKKE: Free-wheeling diodes

1) SKKD types only
2) Internal insulation: beryllium oxide · Observe the warning on page B 1 – 2.
3) See the assembly instructions
4) The screws must be lubricated

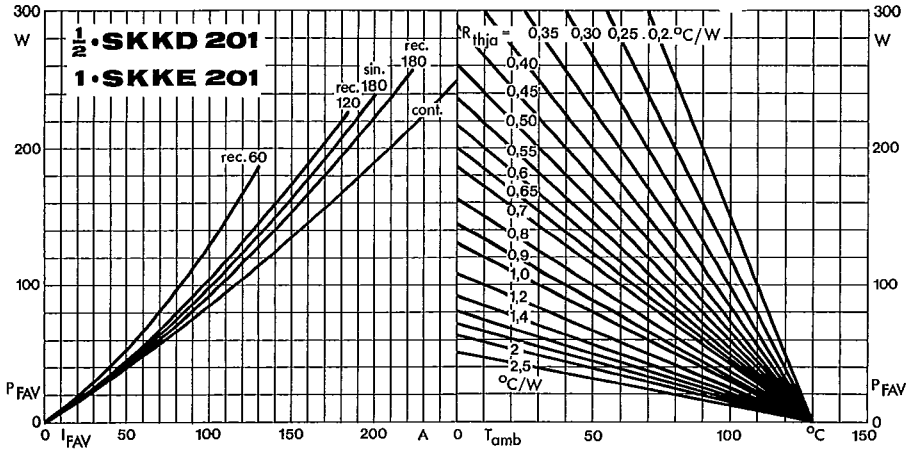


Fig. 11 a Power dissipation per diode vs. forward current and ambient temperature

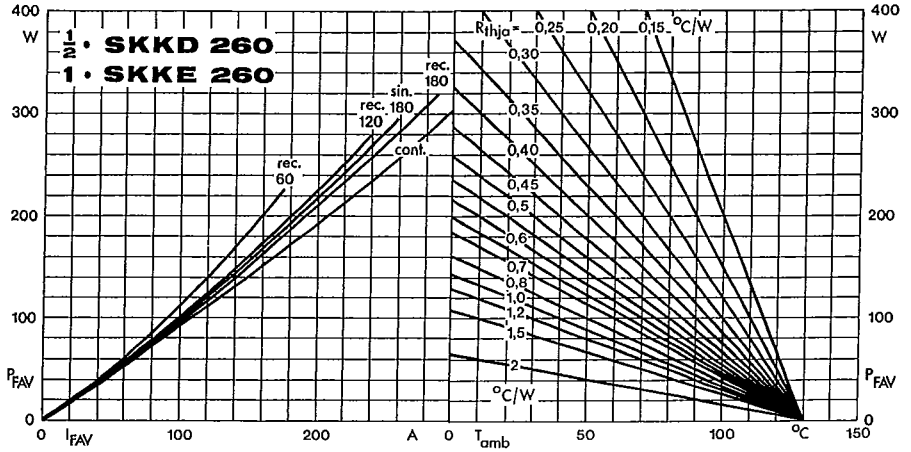


Fig. 11 b Power dissipation per diode vs. forward current and ambient temperature

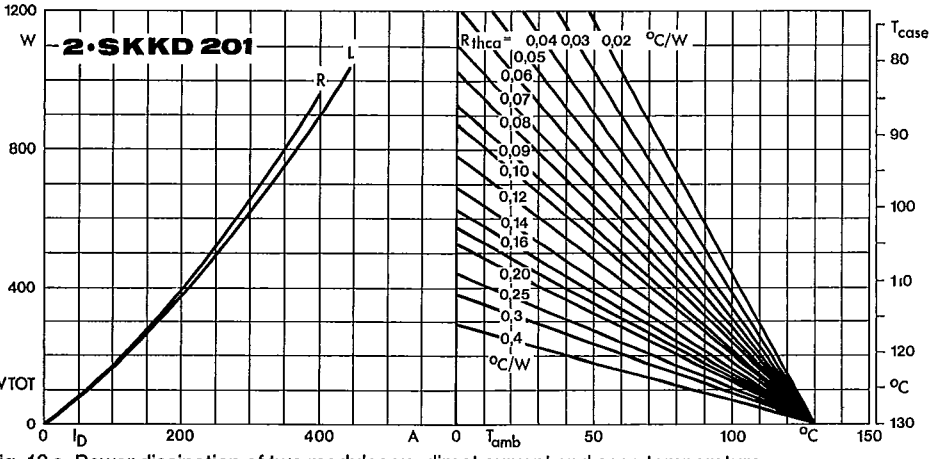


Fig. 12 a Power dissipation of two modules vs. direct current and case temperature

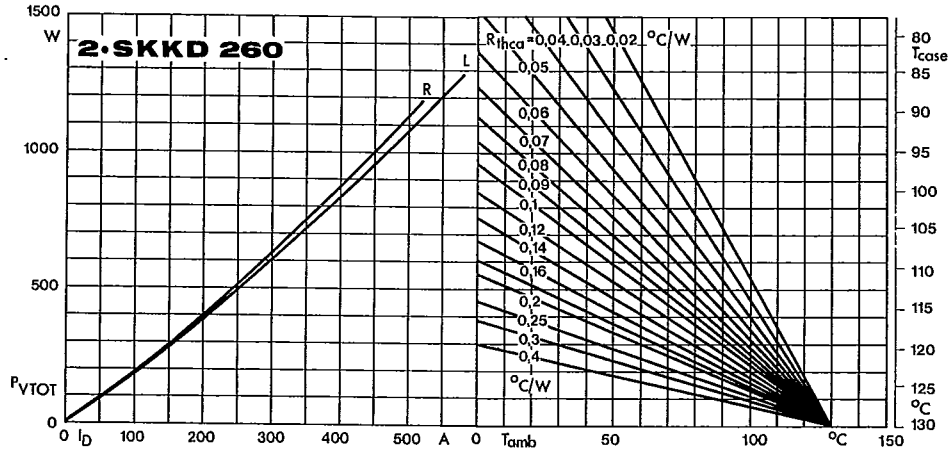


Fig. 12 b Power dissipation of two modules vs. direct current and case temperature

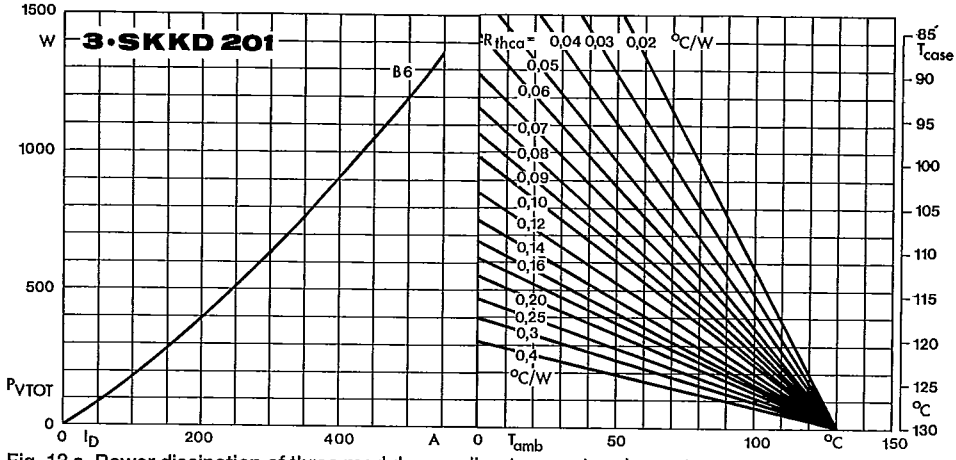


Fig. 13 a Power dissipation of three modules vs. direct current and case temperature

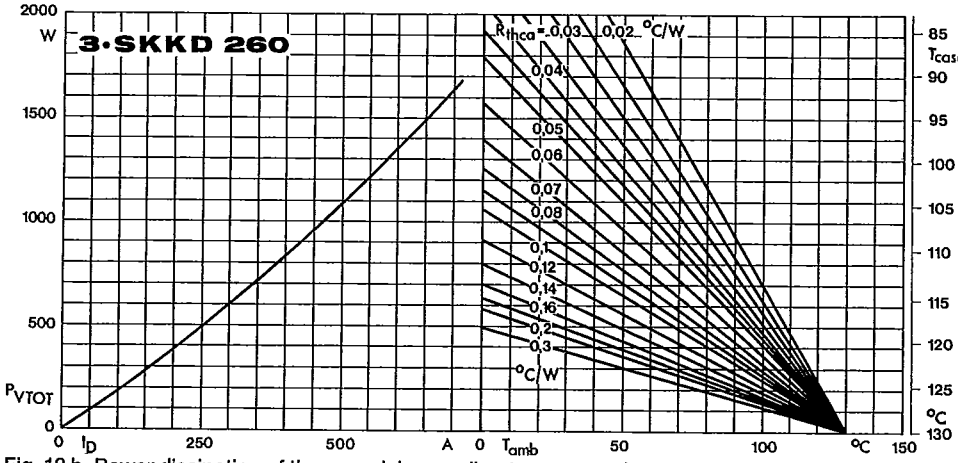


Fig. 13 b Power dissipation of three modules vs. direct current and case temperature

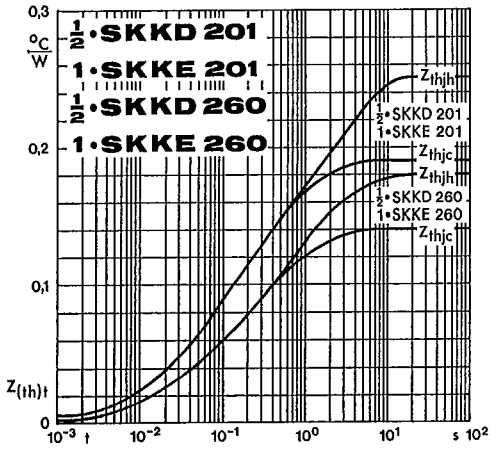


Fig. 14 Transient thermal impedance vs. time

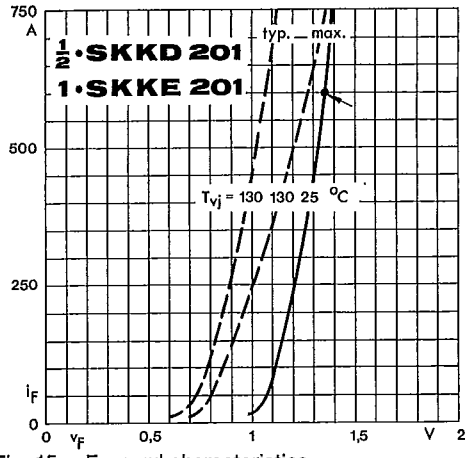


Fig. 15 a Forward characteristics

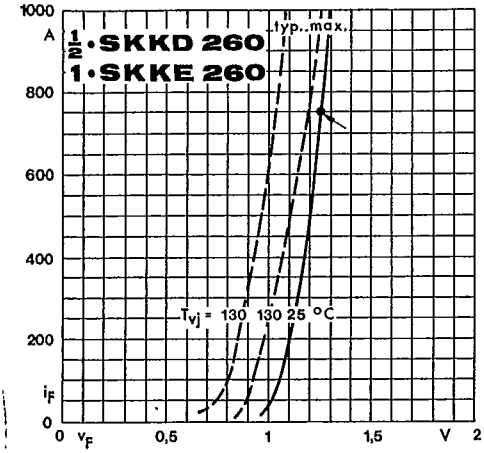


Fig. 15 b Forward characteristics

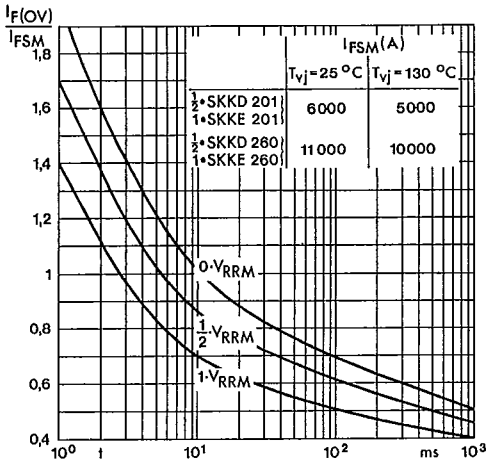


Fig. 16 Surge overload current vs. time